PRINTER CHARACTER SETS

MAY 1974



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5 x 7 DOT MATRIX

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CENTRONICS PRINTER CHARACTER SETS

This document provides illustrated samples of the various character sets available on Centronics printers. Printing is accomplished by selectively firing seven solenoids attached to print wires in the print head. The free ends of the wires pass through a wire guide, at the front of the print head, which aligns the seven wires into a vertical column.

As the print head moves across the paper, the print solenoids are pulsed to drive the print wires against the ribbon, paper and platen, forming the characters out of dots (See Figure 1). De-energizing the print solenoids draws in the print wires flush with the surface of the print head.

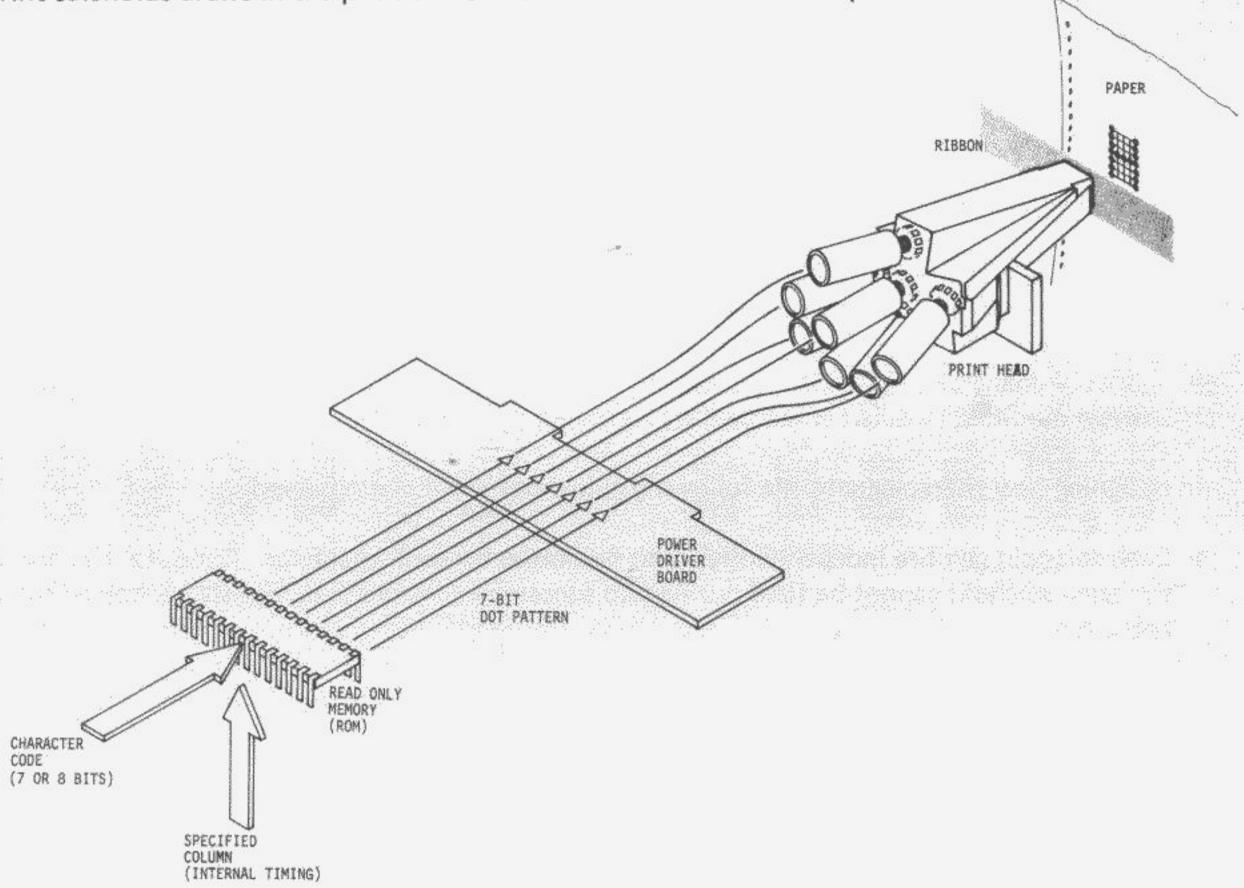


Figure 1. CHARACTER GENERATION BLOCK DIAGRAM

The printing impulses for the seven solenoids are developed in one or more logic elements called Read-Only Memories (ROM's). Each ROM is addressed by: (1) a 7-bit character code which specifies the character to be printed, and (2) an internally-generated timing signal which specifies a single column within that character. In response to these inputs, the ROM generates seven logic signals which control the dot pattern for that addressed column.

CENTRONICS PRINTER CHARACTER SETS

Each ROM can generate up to five dot columns for 64 different characters. For generating,9 x 7 characters, two ROM's are used. As shown in Figure 2, one ROM generates the "full step" columns (i.e., 1, 3, 5, 7 & (), and the other generates the "half step" columns (i.e., 2, 4, 6 & 8).

Each character set illustrated in the brochure contains the following information:

Figure 2. 9 x 7 CHARACTER (A)

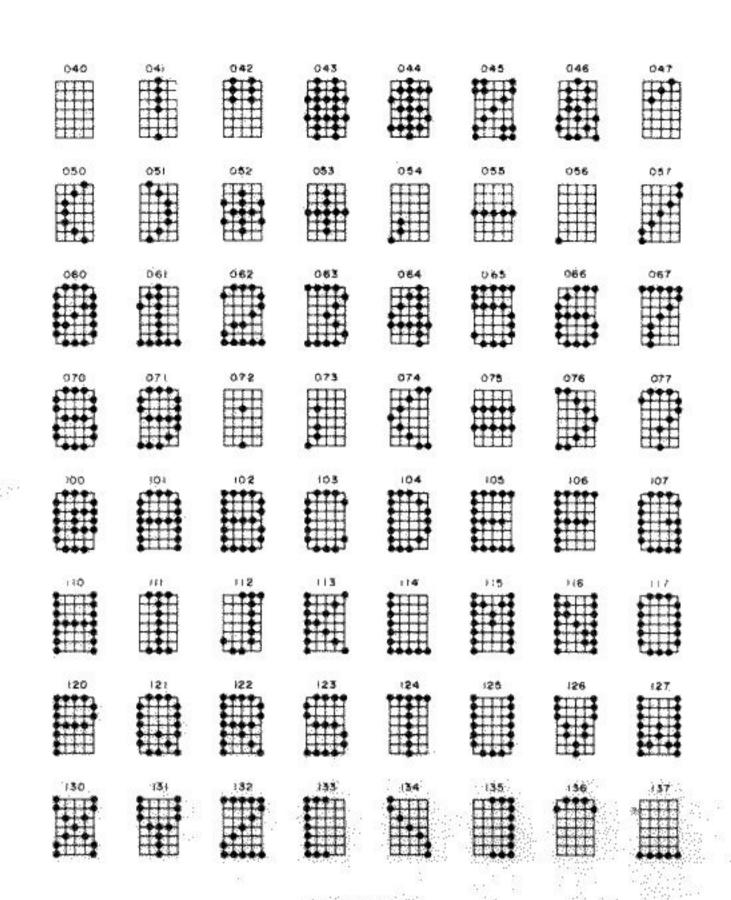
- The identification number of each ROM For example, 27-026/027 specifies two ROM's: 27-026 generates the full-step dots and 27-027 generates the half-step dots. Identification numbers C-9262/63 specify two functionally identical ROM's.
- The octal code used to address each character For example, a binary 1010011 on Data Lines 7 through 1 will address the character whose octal code is 123.
- Special characters If a character set differs from the standard ASCII set by a few characters, these modified (special) characters are indicated by an asterisk.

In designing new character sets, the following guidelines should be observed.

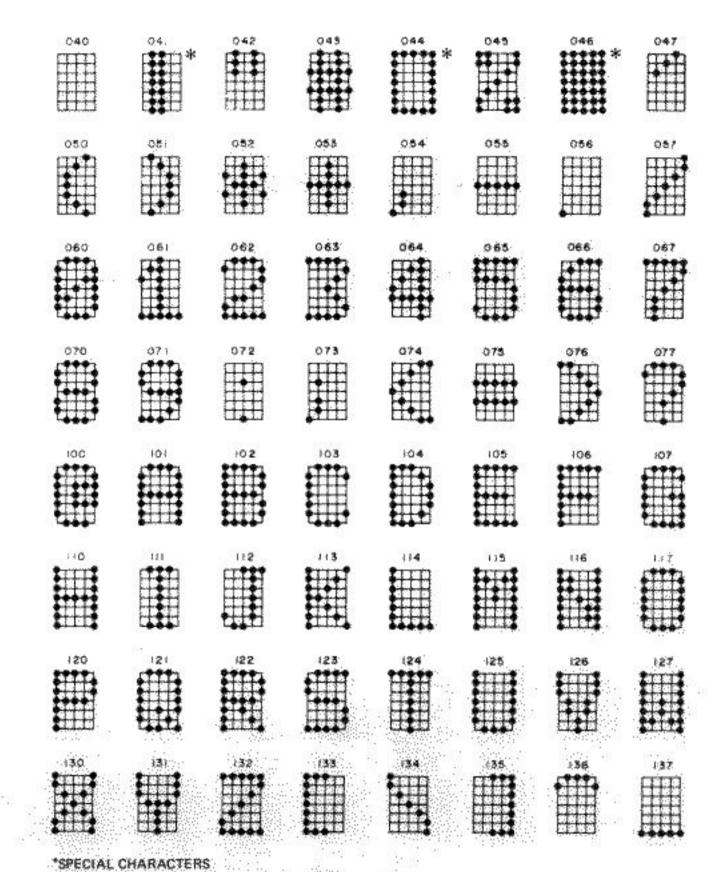
- Each solenoid can fire independently up to five times for each character. For a 9 x 7 character, the same solenoid cannot be fired during two successive columns (i.e., full-step followed by a half step).
- The number of ROM's required for generating a character set is shown in the following table:

No. of Characters	No. of ROM	No. of ROM's Required		
	(5 x 7)	(9 × 7)		
64	1	2		
96/128	2	4		

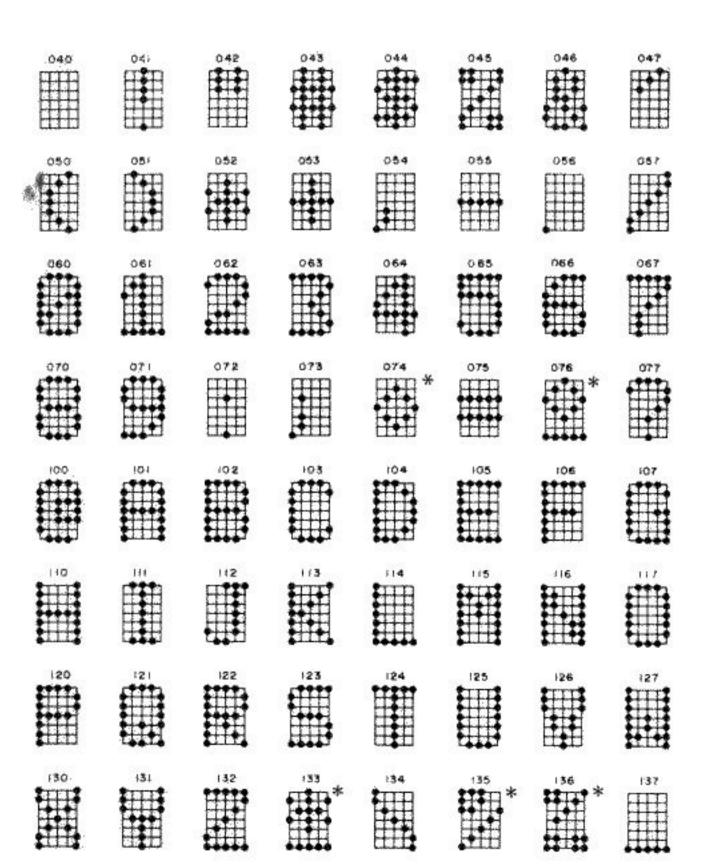
CENTRONICS 5×7 PRINTER CHARACTER SETS



STANDARD ASCH (I.D. NO. 27-001 or C-8940)

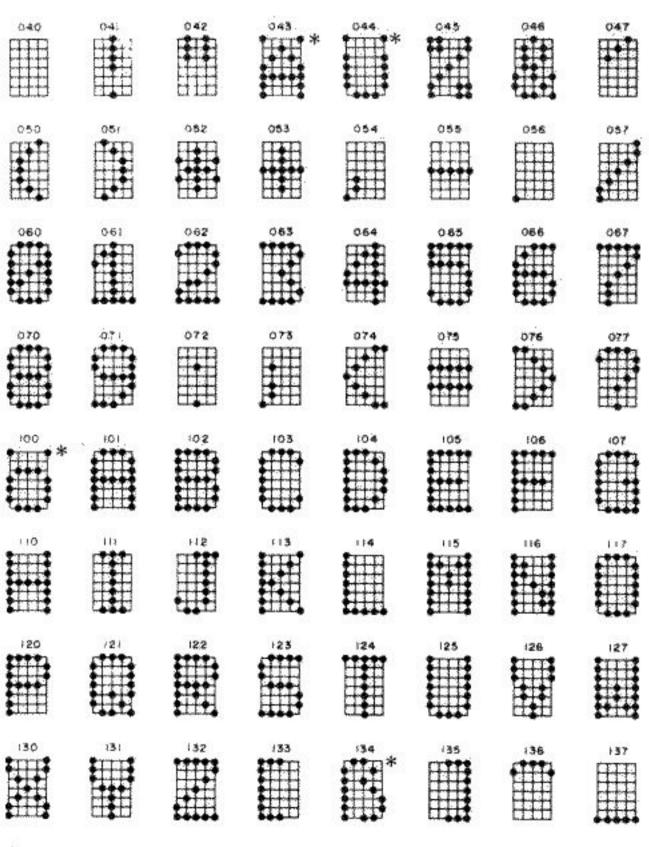


MODIFIED ASCII (I.D. NO. 27-006 or C-8939)



*SPECIAL CHARACTERS

SYSTEM (I.D. NO. 27-007 or C-8842)

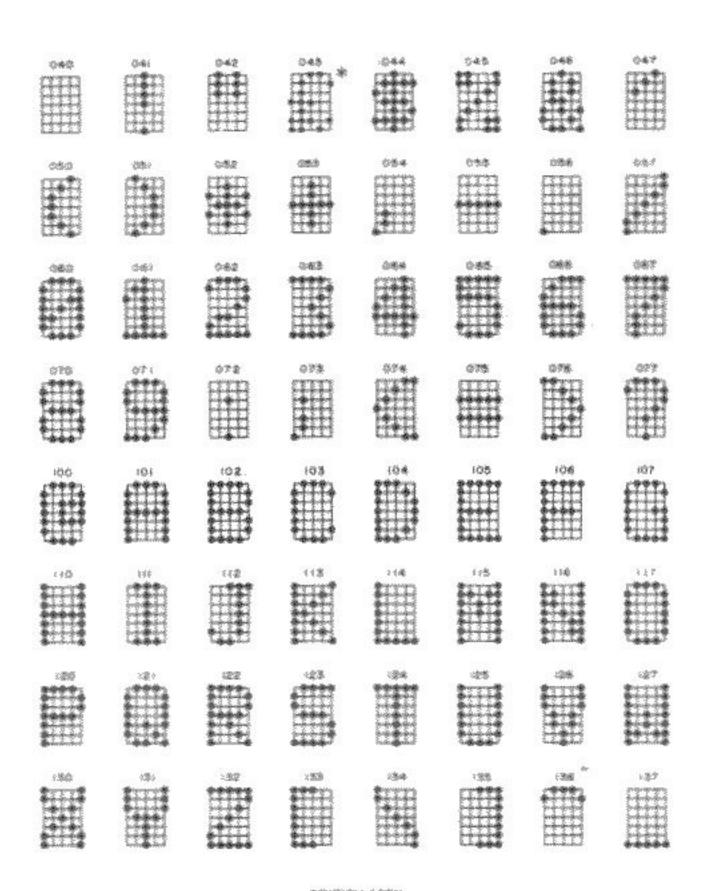


'SPECIAL CHARACTERS

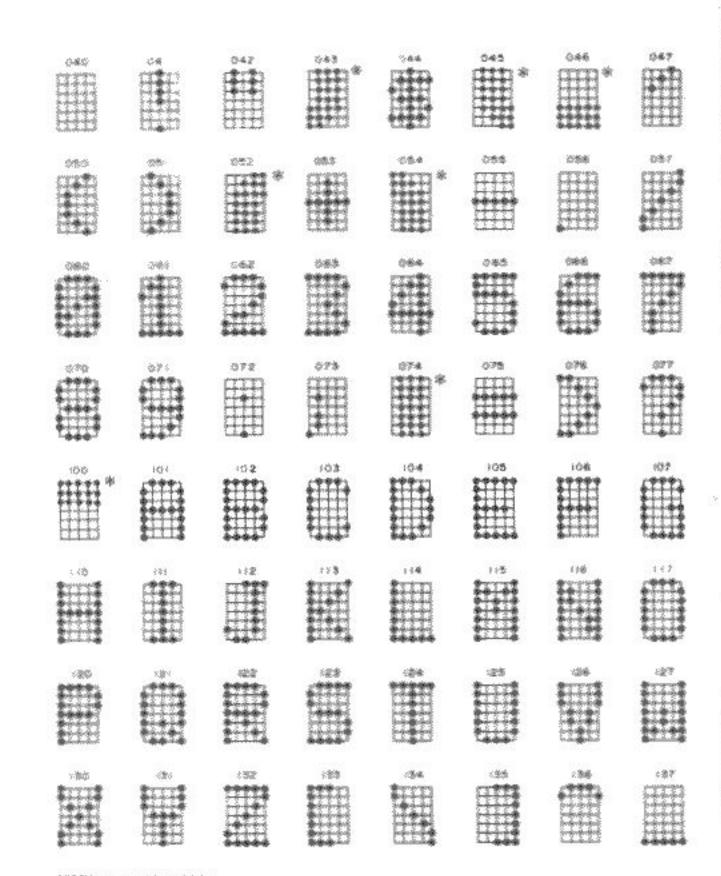
GERMAN (I.D. NO. 27-010 or C-9146)

CENTRONES

5×7 PRINTER CHARACTER SETS

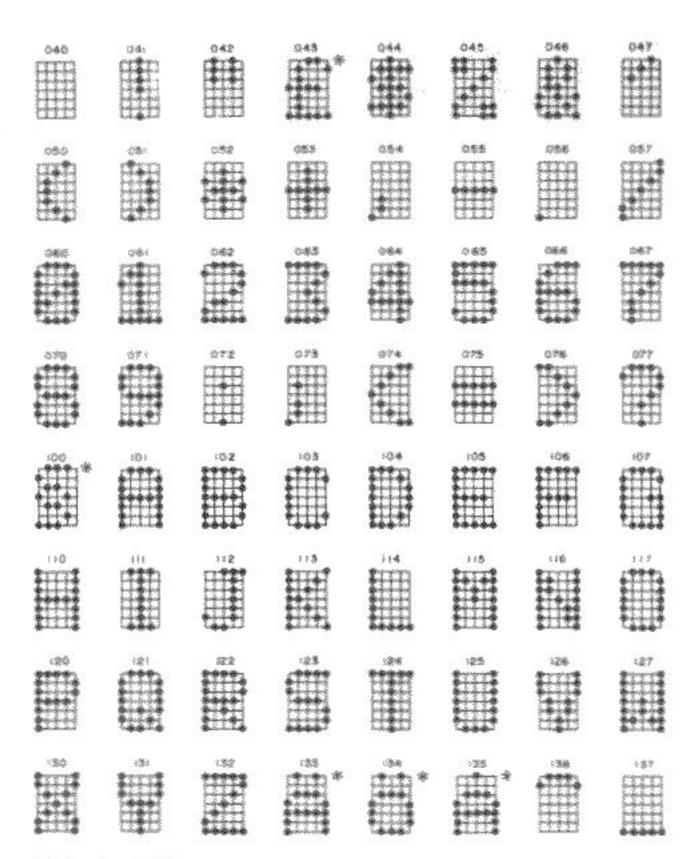


8#1710H ASC21 (I.D. NO. 27-018 = C-9147)



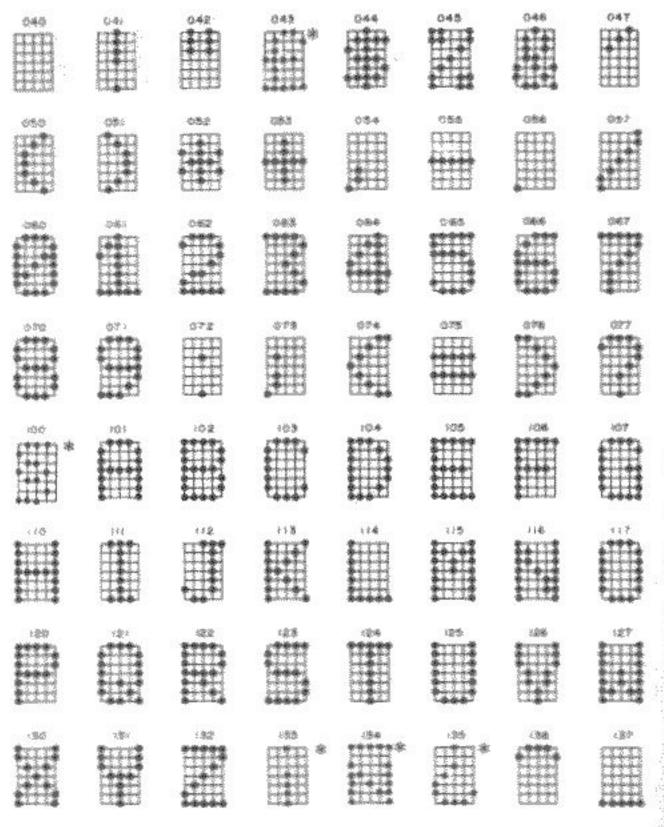
"SPECIAL CHARACTERS

MODIFIED BRITISH ASCIS (I.D. NO. 27-018 or C-0148)



"SPECIAL CHARACTERS

SWEDEN B.D. NO. 27-024 or C-9256)

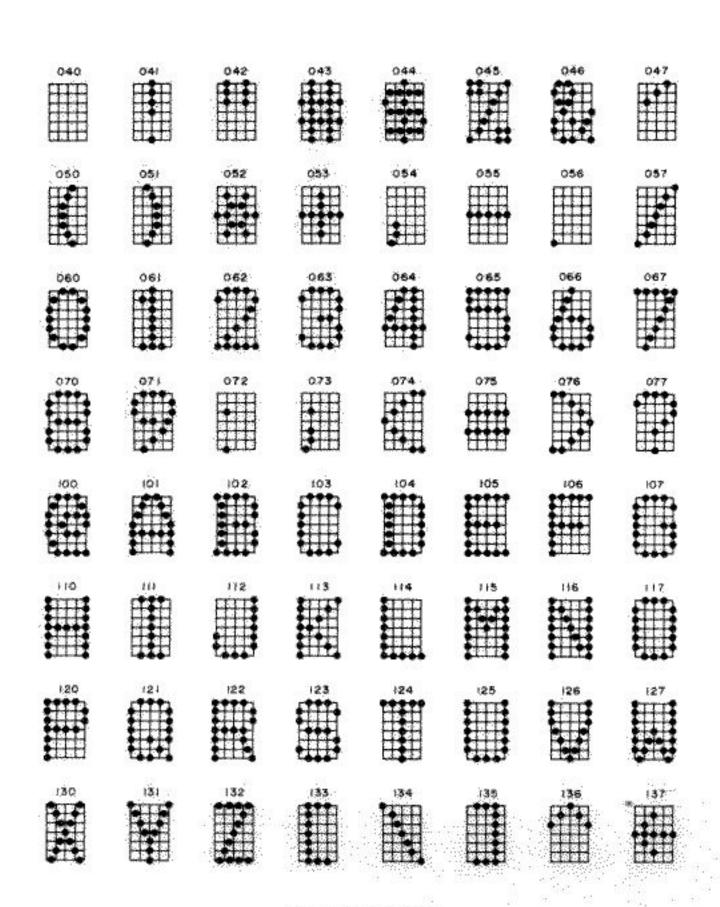


"SPECIAL CHARACTERS

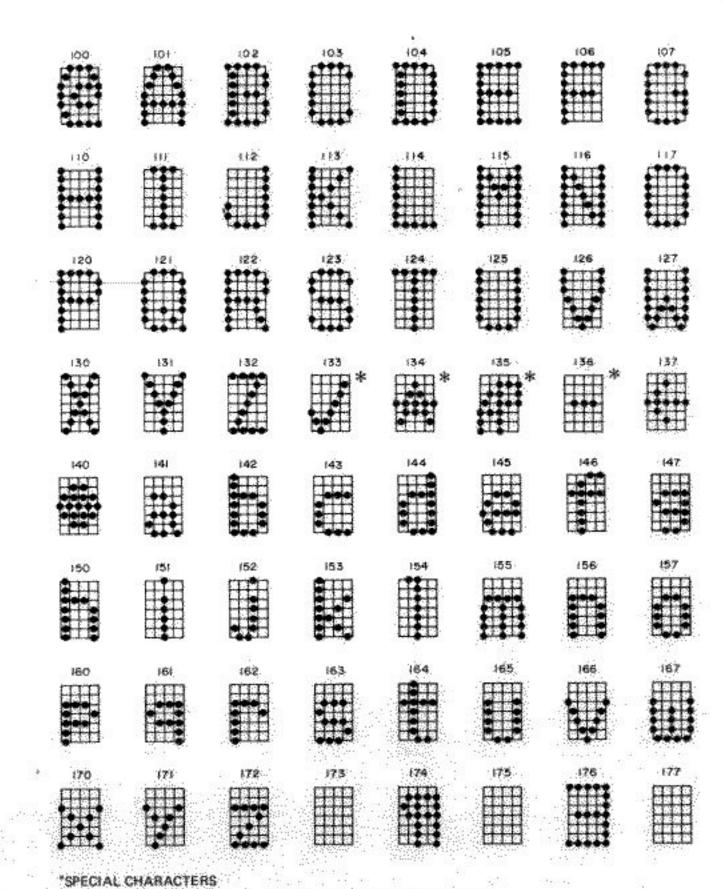
3FA/N (I.D. NO. 17-025 or C-9257)

CENTRONICS

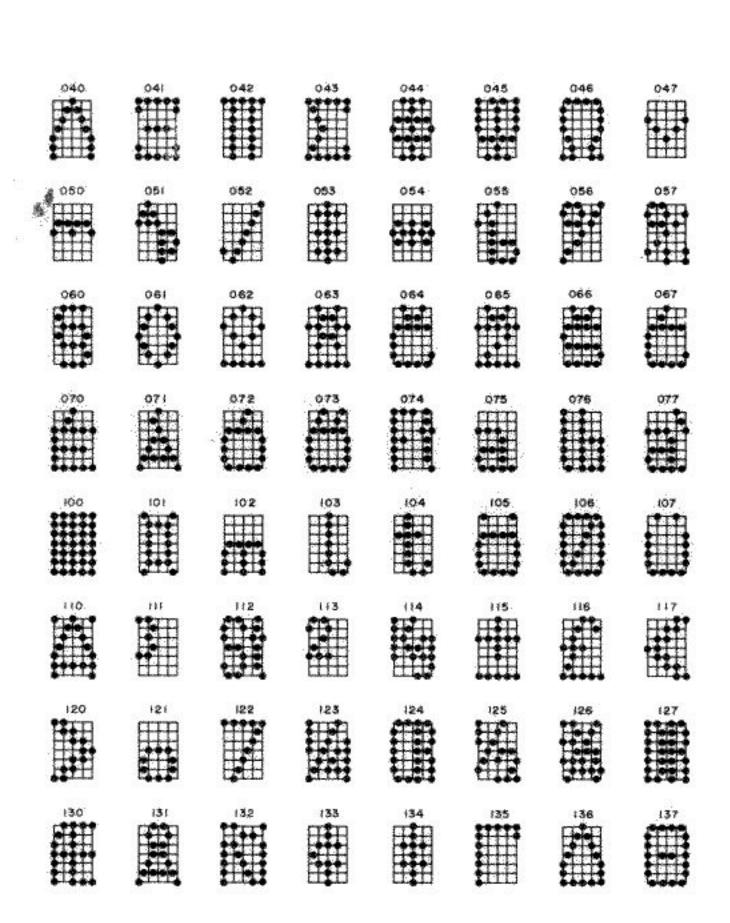
9×7 PRINTER CHARACTER SETS



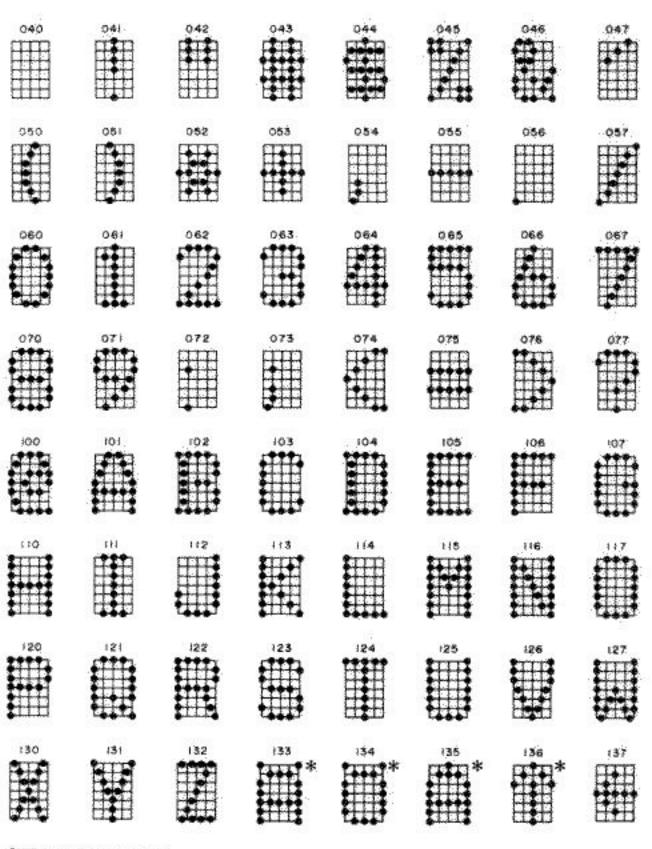
STANDARD ASCII 9 X 7 (I.D. NO. 27-002/003 or C-8837/38)



UPPER/LOWER CASE (PUBLISHER) (I.D. NO. 27-004/005 or C-9024/25)



EXPORT (I.D. NO. 27-008/009 or C-8833/34)



SPECIAL CHARACTERS

SWEDISH/FINNISH (I.D. NO. 27-011/012 or C-8840/41)

The Centronics family of printers/teleprinters.

MODEL	SF	PEED	NO. OF COLUMNS	DOT MATRIX	
	CPS	LPM		5x7	9x7
101	165	60-200	132	×	
101A	165	60-200	132		×
101AL (LSI)	165	60-200	132		×
102A	330	125	132		X -
122AL	600	200	132		×
306	100	60-150	80	x	opt.
308	120		80	×	opt.
(KSR or RO)					
500	100	40-150	132	×	opt.
508	120	105-106	132	x	opt.
(KSR or RO)					